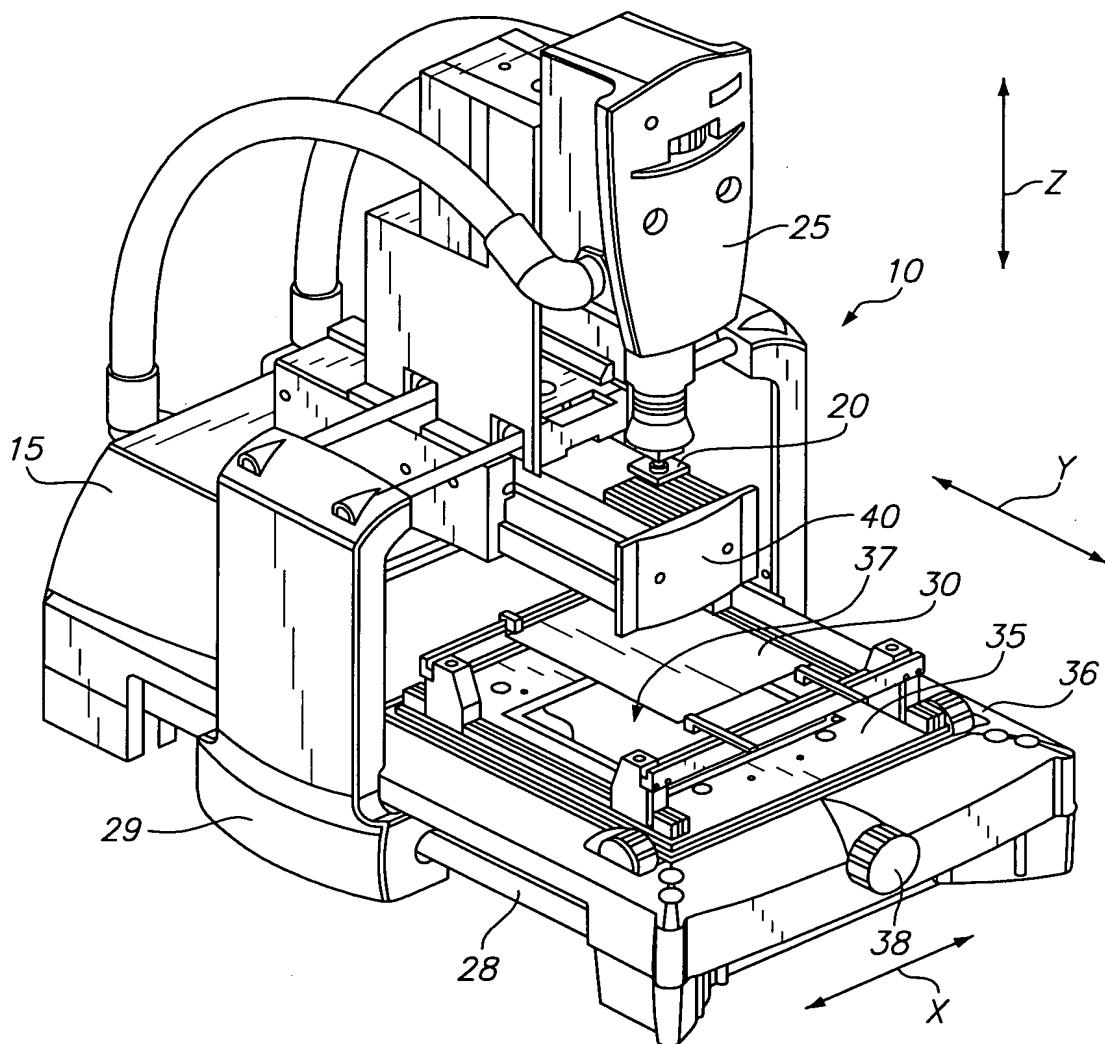
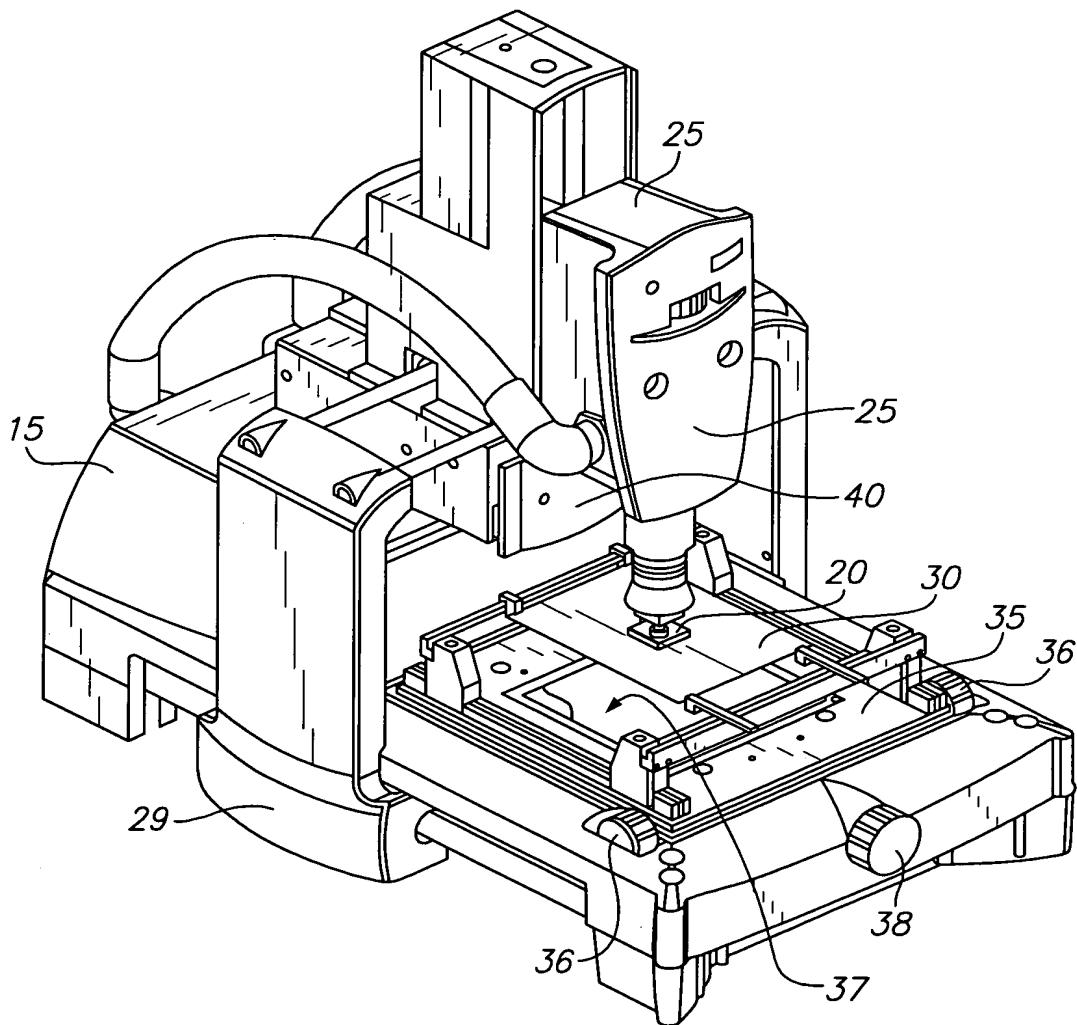


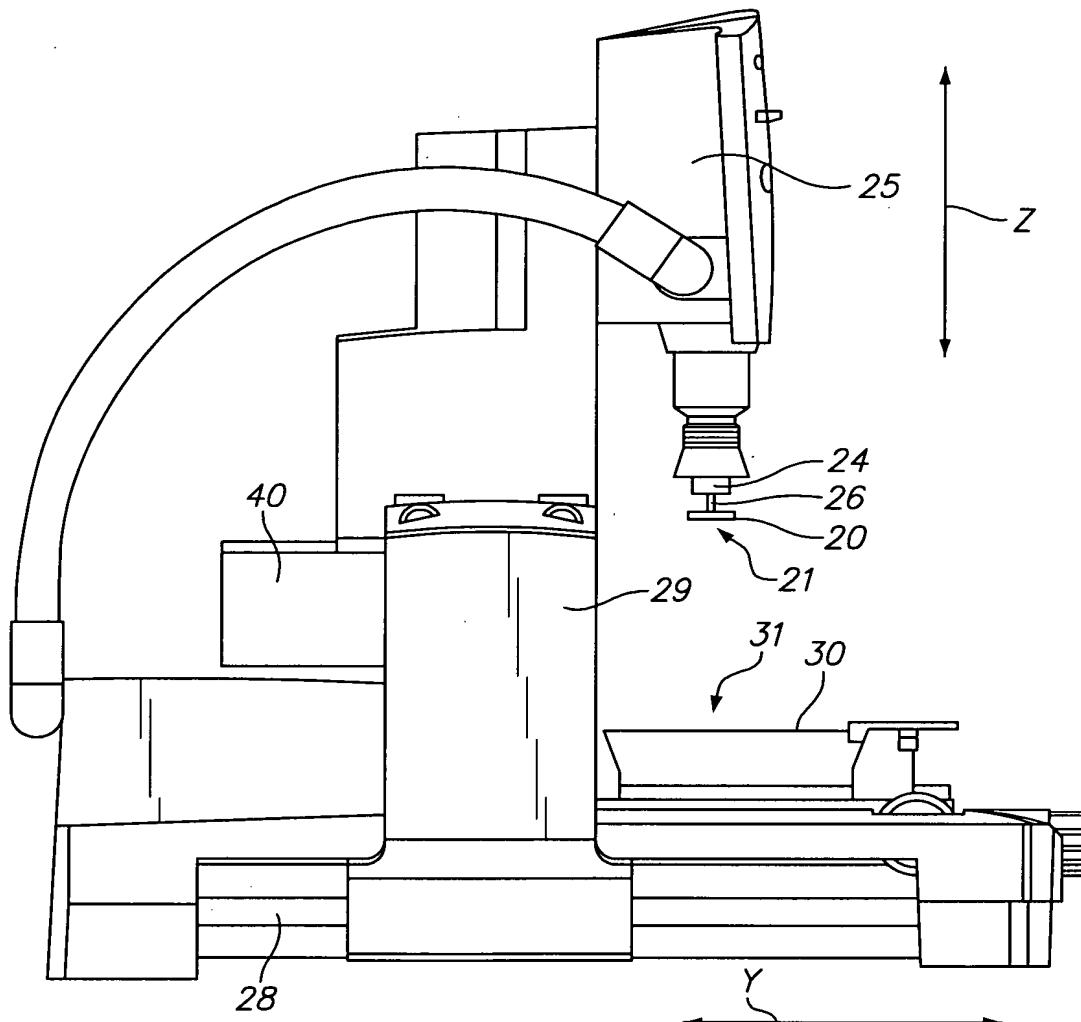
**FIG. 1A**



**FIG. 1B**

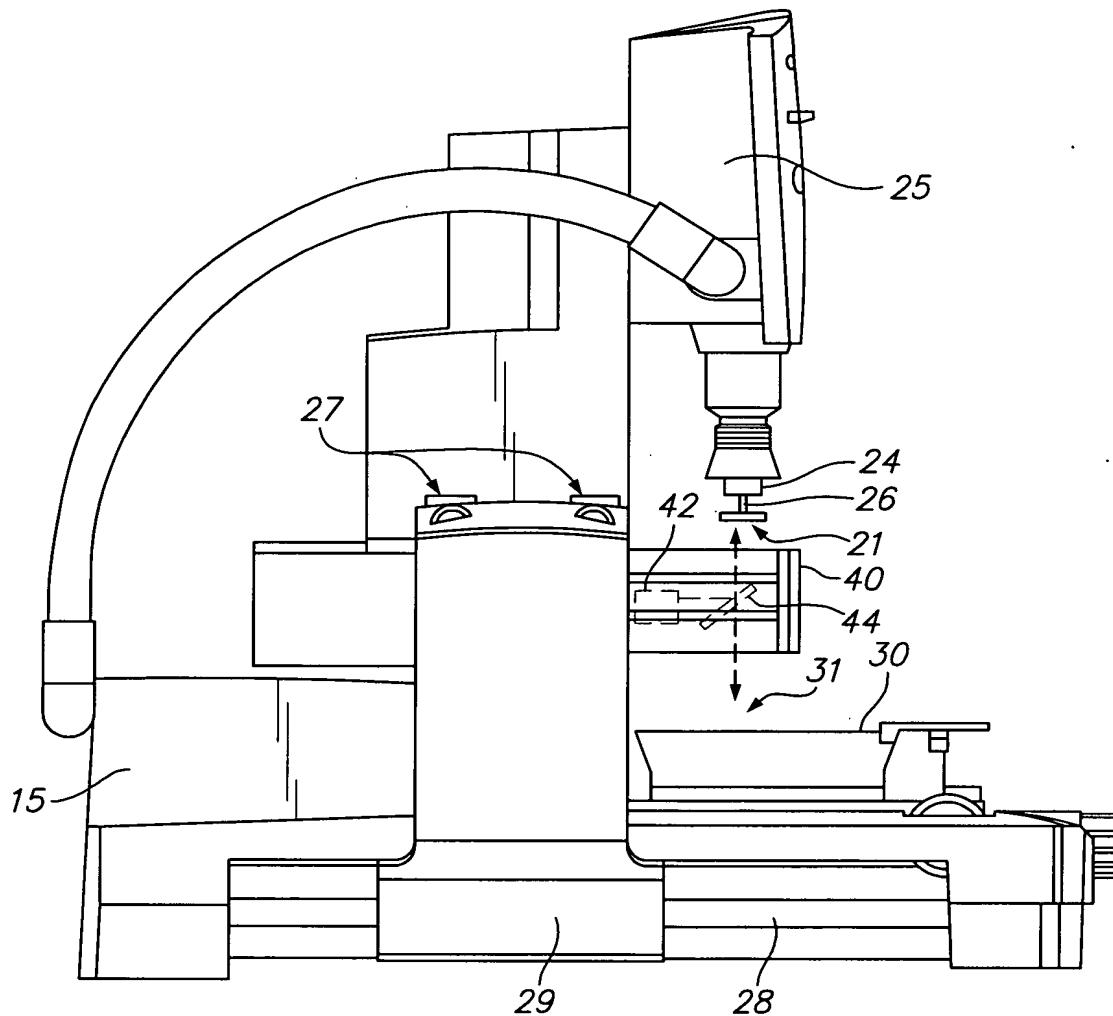


**FIG. 1C**



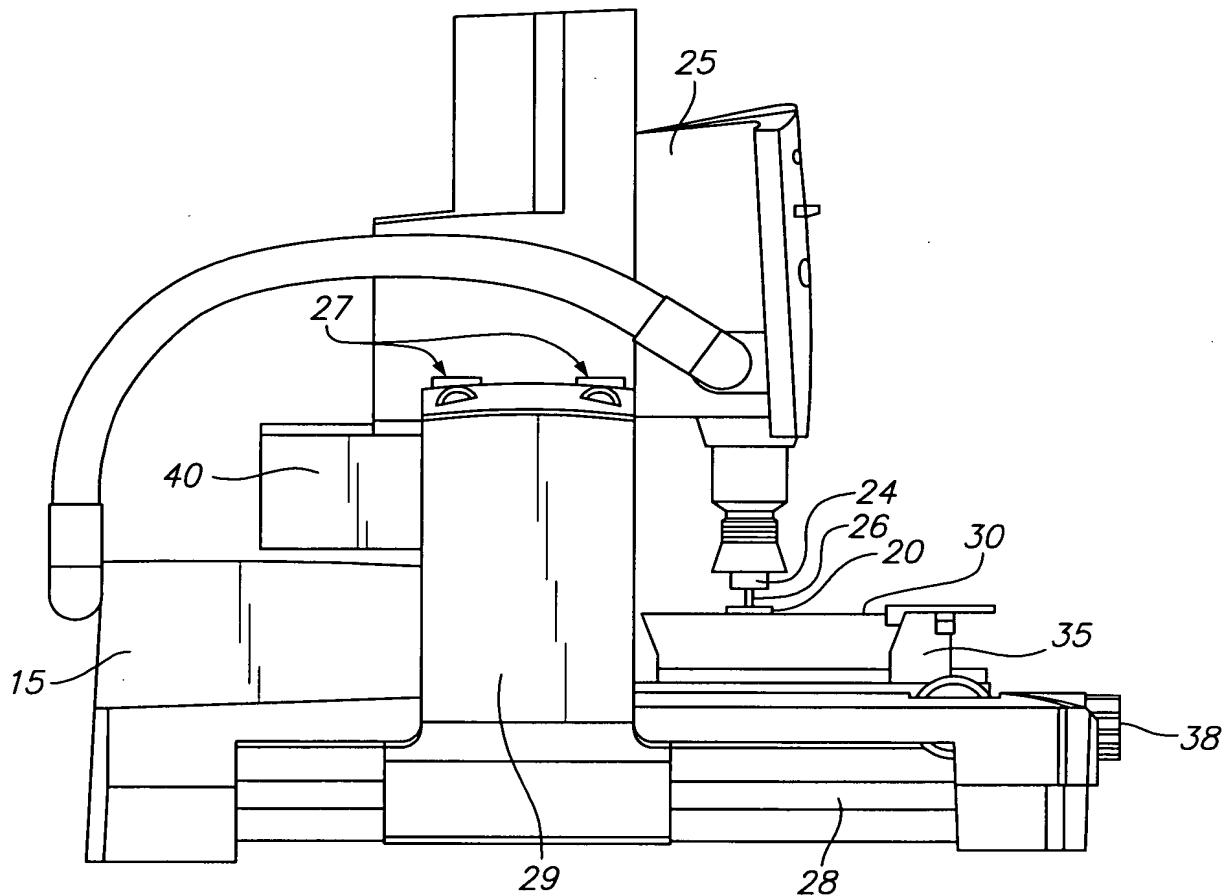
**FIG. 2A**

APPLN. FILING DATE: NOVEMBER 2, 2001  
TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING  
ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS  
INVENTOR(S): MIKE CARLOMAGNO, ET AL.  
APPLICATION SERIAL NO: 10/053,252      SHEET 5 of 12

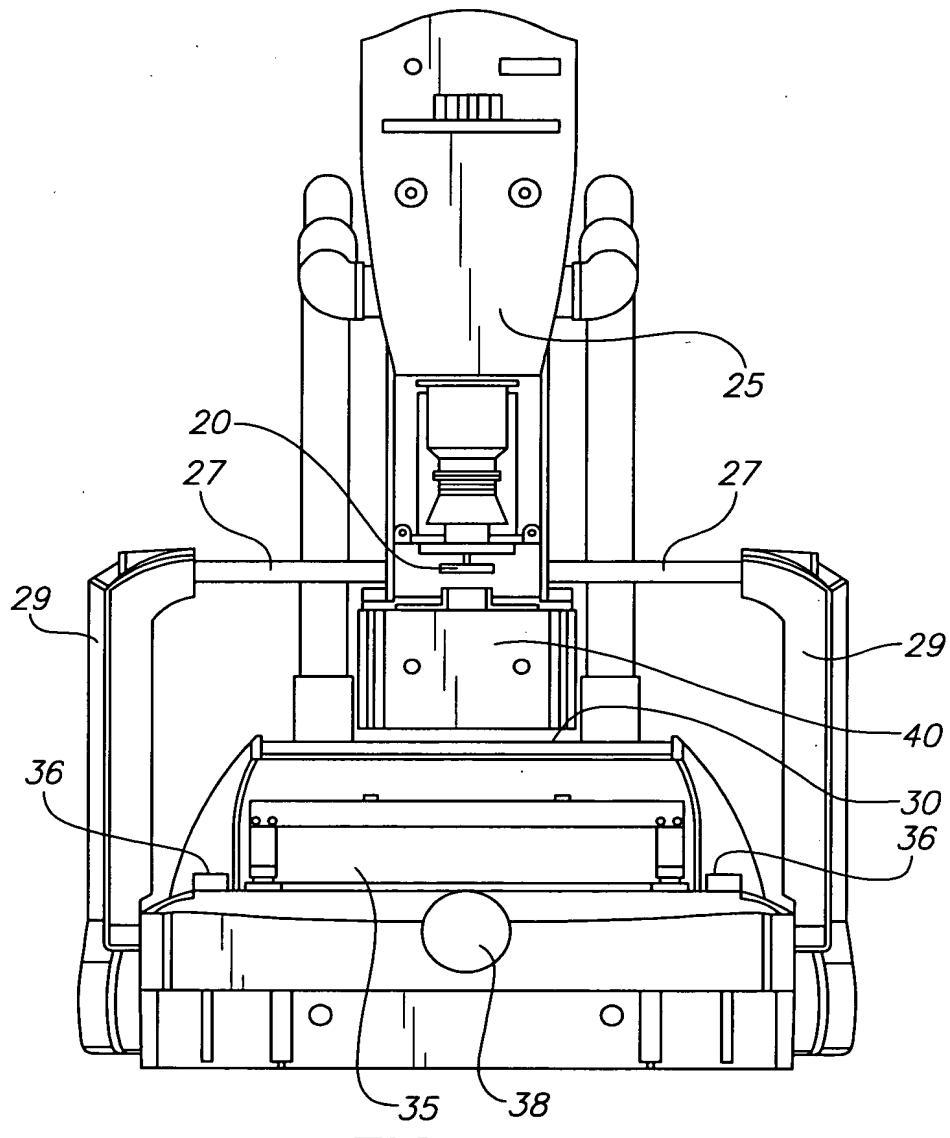


**FIG. 2B**

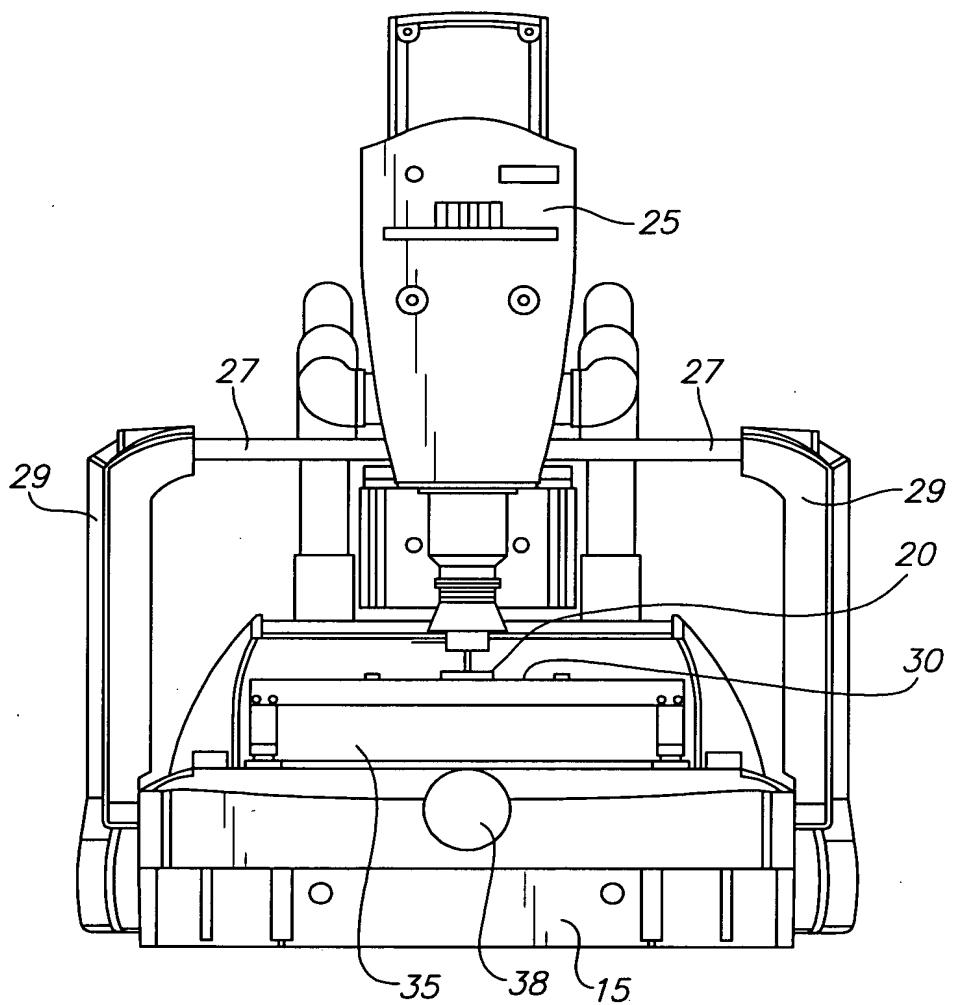
APPLN. FILING DATE: NOVEMBER 2, 2001  
TITLE: RETRACTABLE VACUUM TUBE FOR POSITIONING  
ELECTRONIC COMPONENTS ON PRINTED CIRCUIT BOARDS  
INVENTOR(S): MIKE CARLOMAGNO, ET AL.  
APPLICATION SERIAL NO: 10/053,252      SHEET 6 of 12



**FIG. 2C**



**FIG. 3A**



**FIG. 3B**

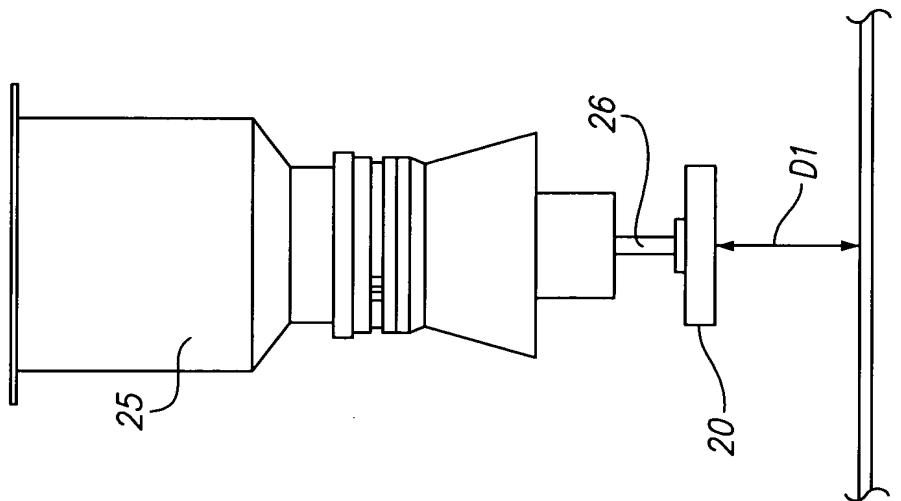


FIG. 4C

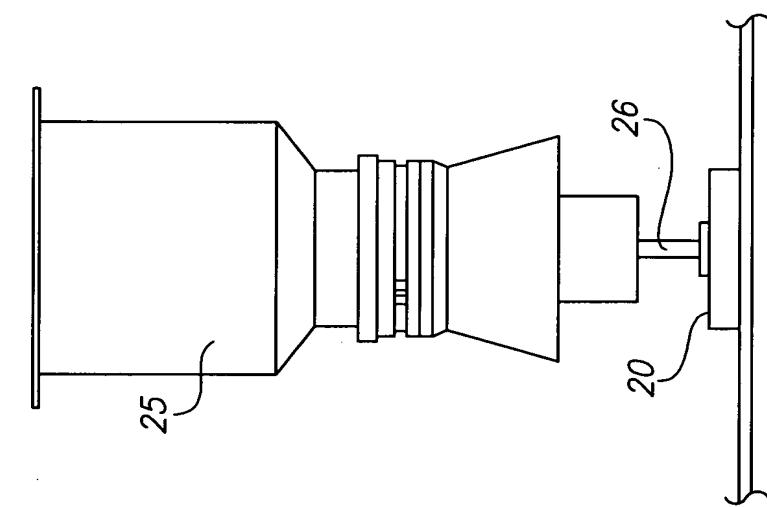


FIG. 4B

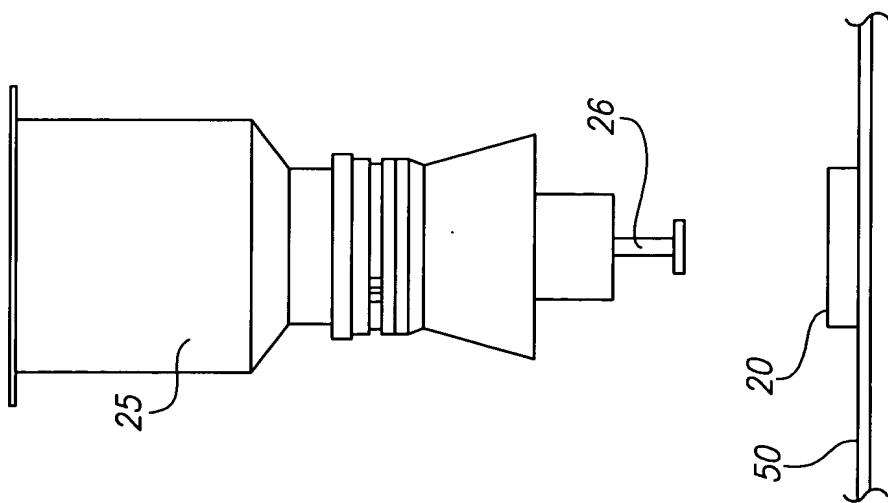
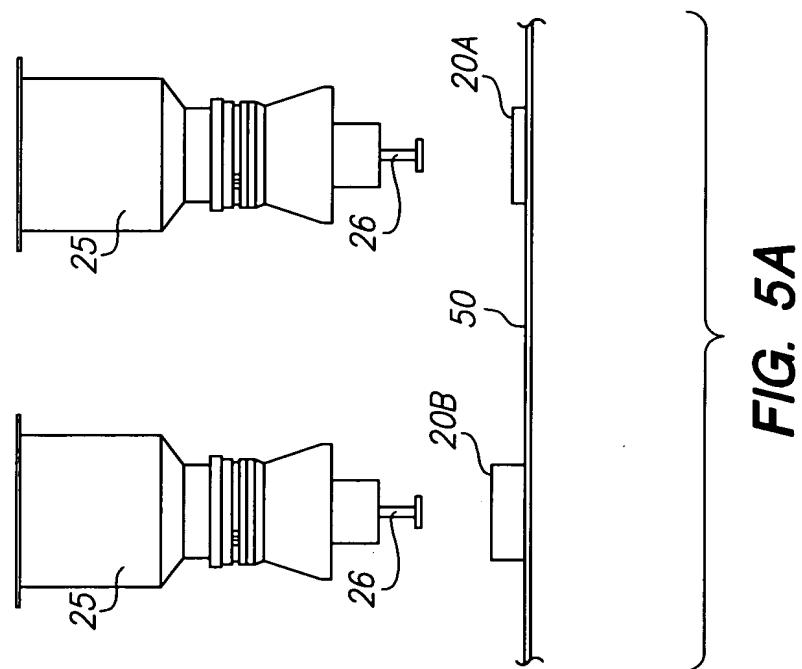
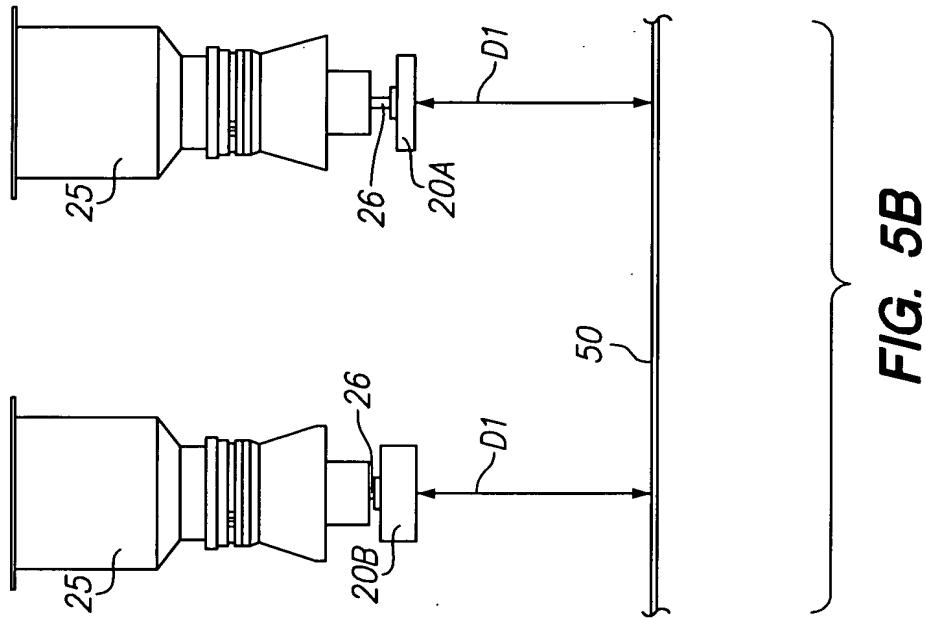
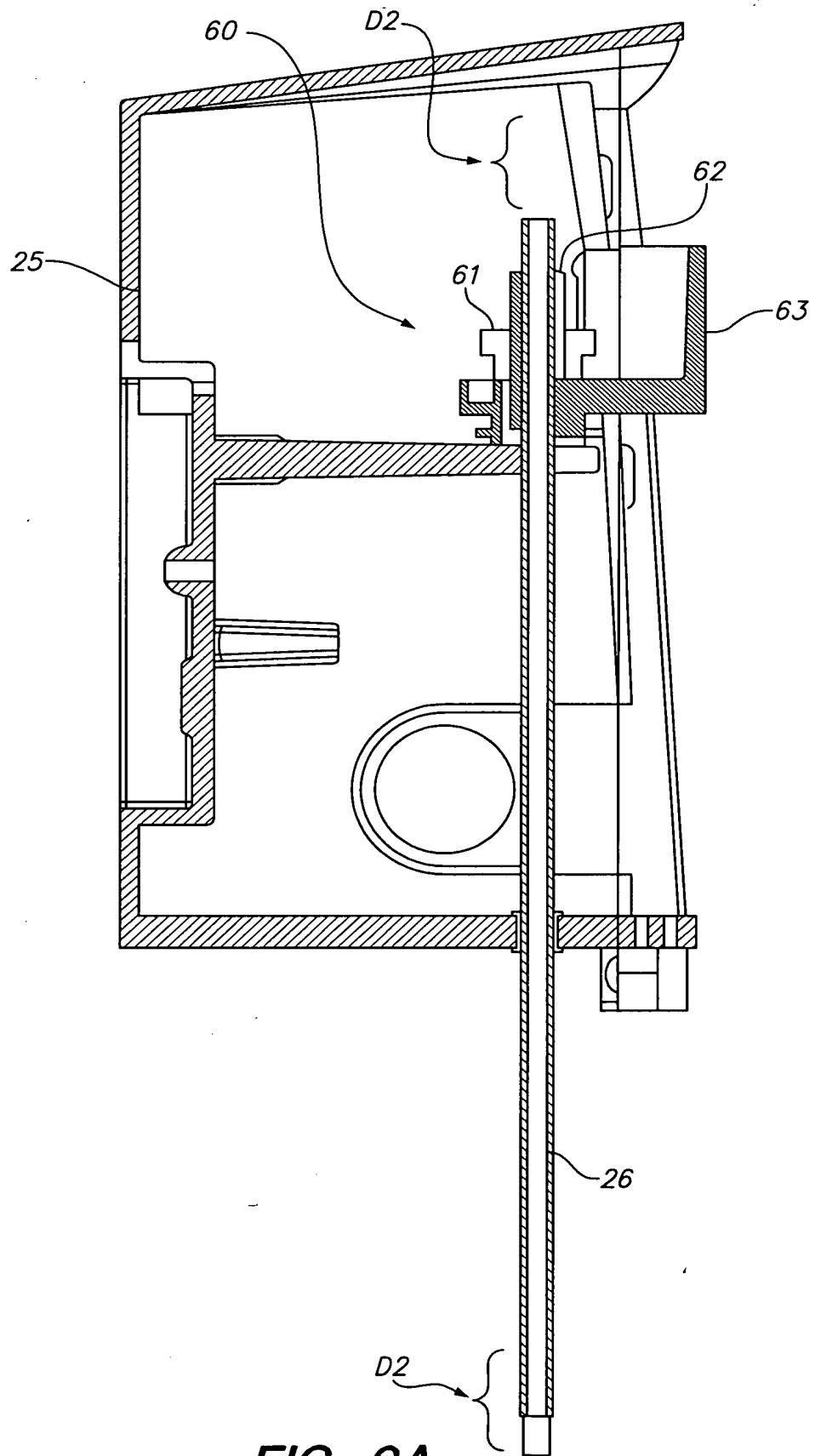
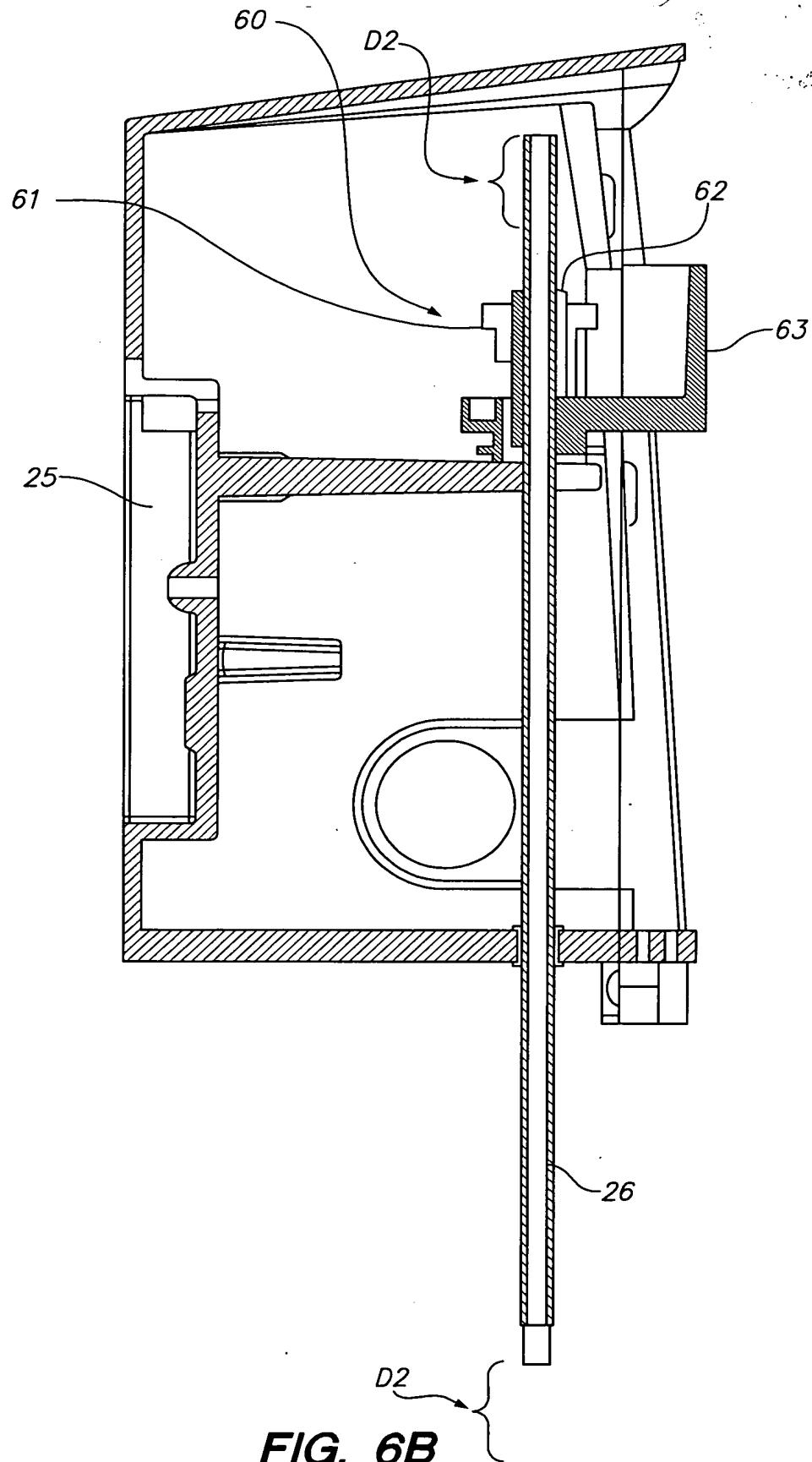


FIG. 4A





**FIG. 6A**



**FIG. 6B**